IN THE CLAIMS:

Please cancel claims 1-17 and 47-48.

18. (Once Amended) A method of preventing or reversing conformationally altered protein assembly or aggregation in an animal, comprising:

[introducing picolinic acid, its analogs, or derivatives to the conformationally altered protein] administering to the animal a compound of the following structure:

$$R_3$$
 R_4
 R_4
 R_4
 R_2
 R_1
 R_1
 R_1
 R_2
 R_1
 R_2
 R_1
 R_2
 R_3
 R_4
 R_4
 R_4

wherein R₁, R₂, R₃ and R₄ are selected from a group consisting of an oligopeptide, carboxyl group, methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, secondary butyl group, tertiary butyl group, pentyl group, isopentyl group, neopentyl group, fluorine, chlorine, bromine, iodine and hydrogen, thereby preventing or reversing conformationally altered protein assembly or aggregation.

- 19. (Once Amended) The method of claim 18, wherein [said step of introducing a derivative of picolinic acid comprises introducing fusaric acid to the conformationally altered protein] R_3 is a butyl group.
- 20. (Once Amended) The method of claim 18, [wherein the step of introducing picolinic acid, or its analogs or derivatives to the conformationally altered protein comprises introducing picolinic acid, its analogs, or derivatives to conformationally altered proteins,] wherein said conformationally altered protein is at least one protein selected from a group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 and SEQ ID NO: 7.
- 21. (Once Amended) The method of claim 18, [wherein the step of introducing picolinic acid, or its analogs or derivatives to the conformationally altered protein comprises 3 of 12

introducing picolinic acid, its analogs or derivatives to the conformationally altered protein,] wherein said protein contains a biologically active subunit of at least one protein selected from a group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 and SEQ ID NO: 7.

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- 22. (Once Amended) The method of claim 18, [wherein the step of introducing picolinic acid, or its analogs or derivatives to the conformationally altered protein comprises introducing picolinic acid, its analogs, or derivatives to the conformationally altered protein, comprises introducing picolinic acid, or its analogs or derivatives to said protein,] wherein said protein contains a biologically active variant of at least one protein selected from a group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 and SEQ ID NO: 7.
- 23. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or derivations to the conformationally altered protein comprises introducing] picolinic acid, [its] analogs or derivatives, is administered to an animal by injection.
- 24. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or [derivations] <u>derivatives</u>, to the conformationally altered protein comprises introducing] picolinic acid, its analogs or derivatives, <u>is administered</u> to an animal orally.
- 25. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or derivations to the conformationally altered protein comprises introducing] picolinic acid, its analogs or derivatives, is administered to an animal buccally.
- 26. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or derivations to the conformationally altered protein comprises introducing] picolinic acid, its analogs or derivatives, <u>is administered</u> to an animal parenterally.

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27. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or derivations to the conformationally altered protein comprises introducing] picolinic acid, its analogs or derivatives, is administered to an animal transdermally.

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- 28. (Once Amended) The method of claim 27, wherein the [step of introducing picolinic acid, its analogs, or derivations to an animal transdermally comprises:] <u>administration comprises</u> placing a permeable membrane in fluid communication with a solution comprising said picolinic acid, its analogs or derivatives, directly on the skin of said animal.
- 29. (Once Amended) The method of claim 27, wherein the step of administering picolinic acid, its analogs, or [derivations] <u>derivatives</u> to an animal transdermally is enhanced by methods selected from a group consisting of iontophoresis, phonophoresis and by chemical penetration enhancers selected from a group consisting of fatty acids, fatty alcohols and terpenes.
- 30. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or derivations to the conformationally altered protein comprises introducing] picolinic acid, its analogs or derivatives, is administered to [an] the animal rectally.
- 31. (Once Amended) The method of claim 30, [wherein said step of introducing picolinic acid, its analogs, or derivations to an animal rectally comprises] comprising administering a solution comprising picolinic acid, its analogs or derivatives, in combination with a glyceride, by suppository into the rectum of said animal.
- 32. (Once Amended) The method of claim 18, wherein the [step of introducing picolinic acid, its analogs, or derivations to the conformationally altered protein comprises introducing] picolinic acid, its analogs or derivatives, is administered as a depot preparation.
- 33. (Once Amended) The method of claim 32, [wherein said step of introducing picolinic acid, its analogs, or derivations as a depot preparation comprises] comprising administering [introducing] said picolinic acid, or an analog or derivative thereof by implantation or intramuscularly injecting a solution comprising picolinic acid, its analogs or derivatives, in combination with a polymeric or hydrophobic material.

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- (Once Amended) The method of claim 33, [wherein said step of introducing 34. picolinic acid, its analogs, or derivatives comprises introducing] comprising administering said picolinic acid, its analogs, or derivatives by implantation or intramuscularly injecting a solution comprising picolinic acid, its analogs, or derivatives, in combination with a polymeric material, wherein the polymeric material is at least one selected from a group consisting of an emulsion in an oil and an ion exchange resin.
- (Once Amended) The method of claim 33, [wherein the step of introducing 35. picolinic acid, its analogs, or derivatives comprises introducing] comprising administering said picolinic acid, its analogs, or derivatives by implantation or intramuscularly injecting a solution comprising picolinic acid, its analogs, or derivatives, in combination with a hydrophobic material, wherein the hydrophobic material is a sparingly soluble salt of a picolinic acid anion, analogs or derivatives thereof.
- 36. (Once Amended) The method of claim 18, further comprising disrupting a metalloprotein complexed with a transition metal ion [containing] and at least one protein sequence selected from a group consisting of SEQ ID NO:1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 and SEQ ID NO: 7.
- 37. (Once Amended) The method of claim 18, further comprising disrupting a metalloprotein complexed with a transition metal ion [containing] and a biologically active subunit of at least one protein selected from a group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 and SEQ ID NO: 7.
- 38. (Once Amended) The method of claim 18, further comprising disrupting a metalloprotein complexed with a transition metal ion [containing] and a biologically active variant of at least one protein selected from a group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 and SEQ ID NO: 7.
- 39. (Once Amended) A method of preventing or reversing conformationally altered protein assembly or aggregation in an animal comprising administering to the animal a 2104198

composition comprising [introducing] fusaric acid [to], thereby preventing or reversing [a] conformationally altered protein assembly or aggregation.

40. (Once Amended) A method of treating conformationally altered protein assembly or aggregation in an animal comprising:

administering to the animal a therapeutically effective amount of [the composition of claim 2] a compound represented by the following structure: [to said animal]

$$R_3$$
 R_4
 R_4
 R_2
 R_1
 R_1
 R_1
 R_2
 R_3
 R_4
 R_4
 R_4
 R_4

wherein R₁, R₂, R₃ and R₄ are selected from the group consisting of an oligopeptide, carboxyl group, methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, secondary butyl group, tertiary butyl group, pentyl group, isopentyl group, neopentyl group, fluorine, chlorine, bromine, iodine and hydrogen, thereby preventing or reversing conformationally altered protein assembly or aggregation.

41. (Once Amended) [A] <u>The</u> method of claim 40 [treating conformationally altered protein assembly or aggregation in an animal comprising:

administering a therapeutically effective amount of the composition of claim 2 to said animal,] wherein R_3 [of said composition] is a butyl group.

42. (Once Amended) The method of claim 40, wherein the administration of said therapeutically effective amount of said composition [of claim 1] comprises:

administering said therapeutically effective amount of said composition to cells within said animal.

43. (Once Amended) The method of claim 42, wherein the administration of said therapeutically effective amount of said composition to cells comprises:

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administering the composition [of claim 1] to cells which are within an animal selected from a group consisting of a human, a cow, a sheep, a deer and a goat.

- 44. (Once Amended) The method of claim 43, wherein the administration of said therapeutically effective amount of said composition to cells within a human comprises: administering the composition [of claim 1] to brain tissue cells within said human.
- 45. (Once Amended) The method of claim 40, further comprising adding said therapeutically effective amount of said compound [of claim 1] to a treatment regimen of at least one or more therapeutic agents.
- 46. (Once Amended) The method of claim 40, wherein the [step of administering of said therapeutically effective amount of said compound of claim 1 further comprises treating conformational] conformationally altered [proteins] protein assembly or aggregation is caused by a disease selected from a group consisting of Alzheimer's disease, spongiform encephalopathy, cerebral amyloid angiopathy, Parkinson's disease, frontal temporal dementia, Pick's disease, amyotrophic lateral sclerosis, Huntington's disease and Creutzfelds-Jakob disease.